

EAST Search History

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|------------------------------|------------------|---------|---------------------|
| L1 | 0 | (microfluid\$3 and fluid adj impermeable and needle and hydrogel).clm. | US-PGPUB; USPAT; USOCR | OR | ON | 2010/02/19 14:59 |
| L2 | 5 | (microfluid\$3 and needle and hydrogel).clm. | US-PGPUB; USPAT; USOCR | OR | ON | 2010/02/19 14:59 |
| L3 | 8 | (chamber and valve and needle and hydrogel).clm. | US-PGPUB; USPAT; USOCR | OR | ON | 2010/02/19 14:59 |
| L4 | 4 | ((chamber reservoir) and pressure adj source and valve and hydrogel).clm. | US-PGPUB; USPAT; USOCR | OR | ON | 2010/02/19 15:00 |
| L5 | 28 | ((chamber reservoir) and pump and valve and hydrogel).clm. | US-PGPUB; USPAT; USOCR | OR | ON | 2010/02/19 15:00 |
| L6 | 0 | ((chamber reservoir) and valve and hydrogel and expandable and select\$4 and deposit\$4).clm. | US-PGPUB; USPAT; USOCR | OR | ON | 2010/02/19 15:00 |
| L7 | 4608 | (adhesive and needle and hydrogel with pressure same response)".clm" | US-PGPUB; USPAT; USOCR | OR | ON | 2010/02/19 15:01 |
| L8 | 0 | (adhesive and needle and hydrogel with pressure same response).clm. | US-PGPUB; USPAT; USOCR | OR | ON | 2010/02/19 15:01 |
| L9 | 0 | (adhesive and needle and medical and hydrogel with pressure).clm. | US-PGPUB; USPAT; USOCR | OR | ON | 2010/02/19 15:01 |
| L10 | 0 | (medical and (pump microfluidic) and hydrogel same pressure).clm. | US-PGPUB; USPAT; USOCR | OR | ON | 2010/02/19 15:01 |
| L11 | 10 | (medical and (pump microfluidic) and hydrogel and pressure).clm. | US-PGPUB; USPAT; USOCR | OR | ON | 2010/02/19 15:02 |

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|-----|-----|---|------------------------------|----|----|---------------------|
| L12 | 108 | (US-20020194909-\$ or US-20050097951-\$ or US-20070116607-\$ or US-20020040208-\$ or US-20020063060-\$ or US-20020117517-\$ or US-20020193729-\$ or US-20030019520-\$ or US-20030054652-\$ or US-20030077836-\$ or US-20030097092-\$ or US-20030130616-\$ or US-20030153900-\$ or US-20030167036-\$ or US-20030196900-\$ or US-20040059316-\$ or US-20040068224-\$ or US-20040248326-\$ or US-20040254434-\$ or US-20050038379-\$ or US-20050096587-\$ or US-20050143715-\$ or US-20060002804-\$ or US-20060057737-\$ or US-20060078462-\$ or US-20060102483-\$).did. or (US-6782746-\$ or US-6952962-\$ or US-6988402-\$ or US-7238196-\$ or US-5980508-\$ or US-6320029-\$ or US-7083593-\$ or US-5466261-\$ or US-2910242-\$ or US-3964482-\$ or US-4265241-\$ or US-4360019-\$ or US-4395259-\$ or US-4403984-\$ or US-4445885-\$ or US-4486190-\$ or US-4538616-\$ or US-4552561-\$ or US-4557726-\$ or US-4673391-\$ or US-4718430-\$ or US-4734092-\$ or US-4822336-\$ or US-4822337-\$ or US-4871351-\$ or US-4898582-\$).did. or (US-5030216-\$ or US-5085562-\$ or US-5109850-\$ or US-5122127-\$ or US-5152753-\$ or US-5152758-\$ or US-5169389-\$ or US-5178190-\$ or US-5224843-\$ or US-5279558-\$ or US-5290240-\$ or US-5336188-\$ or US-5336213-\$ or US-5337747-\$ or US-5354264-\$ or US-5492533-\$ or US-5569186-\$ or US-5593130-\$ | US-PGPUB; USPAT; USOCR | OR | ON | 2010/02/19 15:07 |
|-----|-----|---|------------------------------|----|----|---------------------|

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|----|----|--|------------------------------|----|----|---------------------|
| | | or US-5656032-\$ or US-5693018-\$ or US-5716343-\$ or US-5730137-\$ or US-5776103-\$ or US-5800420-\$ or US-5807375-\$ or US-5820622-\$ or US-5848991-\$). did. or (US-5906592-\$ or US-5921962-\$ or US-5935593-\$ or US-5995860-\$ or US-6050988-\$ or US-6068751-\$ or US-6186982-\$ or US-6193647-\$ or US-6201980-\$ or US-6268161-\$ or US-6416495-\$ or US-6425878-\$ or US-6475750-\$ or US-6485461-\$ or US-6485462-\$ or US-6514689-\$ or US-6523559-\$ or US-6562000-\$ or US-6589202-\$ or US-6589229-\$ or US-6635049-\$ or US-6663615-\$ or US-6689100-\$ or US-6695765-\$ or US-6740059-\$ or US-6951632-\$ or US-7007710-\$). did. or (US-7029455-\$). did. or (US-2910242-\$). did. | | | | |
| S1 | 1 | "20050038379" | US-PGPUB; USPAT; USOCR | OR | ON | 2006/05/10 10:26 |
| S2 | 36 | (BEEBE near2 DAVID near2 J MACDONALD near2 MI CHAEL near2 J EDDINGTON near2 DAVID near2 T MENSING near2 GLENNYS near2 A).in. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/05/10 10:49 |
| S3 | 7 | ("20020063060" "20020117517" "20020193729" "6268161" "6475750" "6485461" "6514689").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/05/10 09:44 |
| S4 | 50 | ("6312393" "5243982" "4479796" "4931050" "6475753" "4505702" "5237993" "4265241" "4573994" "6312409" "6168587" "5800420" "5807375" "5820622" "6042561" "6471689" "6702779" "6395232" "6448090" "6817986" "6423001" "4360019" "6270455" "6589229" "6258062" "4398908" "5640954" "5201210" "6451240" "5637088" | US-PGPUB; USPAT; USOCR | OR | ON | 2006/05/10 09:46 |

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|-----|-----|---|------------------------------|----|-----|---------------------|
| | | "5575770" "5281199" "5350360" "5417656" "5476451" "5503630" "5527277" "5527278" "5531684" "5542923" "5554117" "5556381" "5607393" "5792123" "4384578" "4781675" "4834705" "4898585" "4952206" "5006118").pn. | | | | |
| S5 | 602 | (604/65).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/05/10 10:26 |
| S6 | 314 | (604/66).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/05/10 10:26 |
| S7 | 689 | (604/67).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/05/10 10:27 |
| S8 | 787 | (604/890.1).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/05/10 10:27 |
| S9 | 728 | (604/131).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/05/10 10:27 |
| S10 | 256 | (604/132).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/05/10 10:27 |
| S11 | 101 | (604/133).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/05/10 10:27 |
| S12 | 611 | (604/151).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/05/10 10:27 |
| S13 | 526 | (604/153).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/05/10 10:28 |
| S14 | 1 | ("2002/0117517").URPN. | USPAT | OR | ON | 2006/05/10 10:34 |
| S15 | 1 | ("6951632").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/05/10 10:35 |

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|-----|----|--|------------------------------|----|-----|---------------------|
| S16 | 63 | ("3570515" "3747628" "4046159" "4119368" "4153855" "4245673" "4434704" "4898582" "5085562" "5088515" "5096388" "5126115" "5164558" "5171132" "5178190" "5224843" "5259737" "5265327" "5290240" "5304487" "5336062" "5346372" "5375979" "5376252" "5400741" "5423287" "5529465" "5593130" "5642015" "5659171" "5660370" "5681024" "5705018" "5743960" "5759014" "5775371" "5836750" "5842787" "5846396" "5872010" "5875817" "5876187" "5879632" "5885470" "5932799" "5942443" "6007309" "6033544" "6033546" "6043080" "6068751" "6086825" "6090251" "6117396" "6123769" "6155282" "6174365" "6176962" "6296673" "6391622" "6408878" "6409832" "6720710").PN. OR ("6951632").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/05/10 10:38 |
| S17 | 1 | ("6523559 ").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/05/10 10:49 |
| S18 | 7 | ("2807421" "2910242" "5641410" "6136212" "6201980").PN. OR ("6523559").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/05/10 10:49 |
| S19 | 38 | ("3618601" "3837339" "4003379" "4020830" "4181128" "4383529" "4401722" "4494950" "4538616" "4596575" "4639244" "4685463" "4705503" "4718430" "4822337").PN. OR ("5152758").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/05/10 14:39 |
| S20 | 16 | ("4080966" "4245648" "4425920" "4710164" "5269301" "5381797").PN. OR ("5730137").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/05/10 14:55 |

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|-----|-----|---|------------------------------|----|-----|---------------------|
| S21 | 33 | ("4522622" "4529102" "4541429" "4721095" "4787071" "4991628" "5197708" "5222713" "5224843" "5527288" "5705070").PN. OR ("6068751").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/05/10 15:03 |
| S22 | 39 | ("4114606" "4815469" "5704352" "5709225" "5711861").PN. OR ("6201980").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/05/10 15:09 |
| S23 | 1 | ("2002/0117517").URPN. | USPAT | OR | ON | 2006/05/10 15:13 |
| S24 | 25 | ("3869676" "3883812" "4703756" "4919141" "5141873" "5305745" "5372133" "5431160" "5544651" "5593852" "5665065" "5752918" "5967975" "5995860" "6030827" "6102856" "6113539" "6150942" "6198394" "6268161").PN. OR ("6475750").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/05/10 15:14 |
| S25 | 7 | ("2807421" "2910242" "5641410" "6136212" "6201980").PN. OR ("6523559").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/05/10 15:20 |
| S26 | 3 | ("2003/0097092").URPN. | USPAT | OR | ON | 2006/05/10 15:24 |
| S27 | 1 | ("7029455").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/05/10 15:24 |
| S28 | 160 | ("20010056258" "20040068224" "3631847" "3812843" "4067000" "4108177" "4151845" "4193397" "4211998" "4231019" "4268150" "4342311" "4364385" "4373527" "4424720" "4435173" "4469481" "4475901" "4498843" "4507115" "4514732" "4529401" "4551134" "4559033" "4559037" "4560979" "4562751" "4585439" "4601707" "4624661" "4634427" "4678408" "4684368" "4685903" "4734092" "4755173" "4781688" "4781693" "4801957" | US-PGPUB; USPAT; USOCR | OR | ON | 2006/05/10 15:24 |

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| "4808161" | "4836752" |
| "4855746" | "4871351" |
| "4882600" | "4886499" |
| "4898578" | "4898579" |
| "4944659" | "4969874" |
| "4973998" | "5007458" |
| "5045871" | "5062841" |
| "5109850" | "5125415" |
| "5176662" | "5178609" |
| "5189609" | "5205819" |
| "5213483" | "5232439" |
| "5239326" | "5242406" |
| "5244463" | "5254096" |
| "5257980" | "5281202" |
| "5308335" | "5312337" |
| "5318540" | "5342313" |
| "5346476" | "5364342" |
| "5411480" | "5433710" |
| "5452033" | "5492534" |
| "5505709" | "5507288" |
| "5514096" | "5533389" |
| "5545152" | "5569187" |
| "5573342" | "5575770" |
| "5576781" | "5582593" |
| "5584813" | "5630710" |
| "5637095" | "5643213" |
| "5647853" | "5660728" |
| "5665065" | "5665070" |
| "5678539" | "5685844" |
| "5685859" | "5695490" |
| "5702363" | "5704520" |
| "5726404" | "5726751" |
| "5741228" | "5747350" |
| "5748827" | "5755682" |
| "5776103" | "5779676" |
| "5785681" | "5785688" |
| "5797881" | "5800397" |
| "5800405" | "5810015" |
| "5814020" | "5839467" |
| "5840063" | "5845218" |
| "5848991" | "5851197" |
| "5858005" | "5858239" |
| "5865806") | PN. OR |
| ("5871470" | "5875393" |
| "5886647" | "5897530" |
| "5906597" | "5911716" |
| "5919167" | "5931814" |
| "5935099" | "5954058" |
| "5957890" | "5961492" |
| "5965848" | "5983094" |
| "5993423" | "5997501" |
| "6019747" | "6024539" |
| "6061580" | "6071292" |
| "6144847" | "6174300" |
| "6190359" | "6206850" |
| "6244776" | "6375638" |

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|-----|----|--|------------------------------|----|-----|---------------------|
| | | "6520936" "6527744" "6554798" "6689091" "6692457" "D303013" "D306691" "D311735" "D315727" "D405524").PN. OR ("7029455").URPN. | | | | |
| S29 | 6 | ("5250023" "5533972" "5879326" "5964729" "6050988" "6083196").PN. OR ("6589202").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/05/10 15:31 |
| S30 | 26 | ("20020006355" "3688764" "3964482" "4473083" "5250023" "5279544" "5320600" "5527288" "5656032" "5735818" "5879326" "5957895" "5997501" "5997524" "6050988" "6083196" "6132755" "6186982" "6219574" "6230051" "6256533" "6261272" "6322808" "6558361").PN. OR ("6689100").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/05/10 15:35 |
| S31 | 2 | ("2004/0068224").URPN. | USPAT | OR | ON | 2006/05/10 15:37 |
| S32 | 7 | ("2807421" "2910242" "5641410" "6136212" "6201980").PN. OR ("6523559").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/05/10 17:55 |
| S33 | 1 | ("6951632 ").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/12/08 14:29 |
| S34 | 89 | (US-20050038379-\$ or US- 20050143715-\$ or US- 20040068224-\$ or US- 20020040208-\$ or US- 20030153900-\$ or US- 20060057737-\$ or US- 20030130616-\$ or US- 20020193729-\$ or US- 20020117517-\$ or US- 20030077836-\$ or US- 20030054652-\$ or US- 20030019520-\$ or US- 20020063060-\$ or US- 20060078462-\$ or US- 20030097092-\$ or US- 20030167036-\$ or US- 20040254434-\$ or US- 20040059316-\$ or US- 20050096587-\$).did. or (US- 5354264-\$ or US-4395259-\$ or US-4486190-\$ or US- | US-PGPUB; USPAT; USOCR | OR | ON | 2006/12/08 15:35 |

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|-----|----|---|------------------------------|----|----|---------------------|
| | | 4822337-\$ or US-4822336-\$ or US-7029455-\$ or US-6562000-\$ or US-6186982-\$ or US-5995860-\$ or US-4734092-\$ or US-4557726-\$ or US-6589229-\$ or US-4718430-\$ or US-4673391-\$ or US-6689100-\$ or US-6485462-\$ or US-6589202-\$ or US-6050988-\$ or US-5776103-\$ or US-5921962-\$ or US-5906592-\$ or US-5820622-\$ or US-5800420-\$ or US-5848991-\$ or US-5716343-\$ or US-5693018-\$). did. or (US-5656032-\$ or US-5336213-\$ or US-5336188-\$ or US-5279558-\$ or US-5169389-\$ or US-5492533-\$ or US-5122127-\$ or US-4445885-\$ or US-4403984-\$ or US-5152753-\$ or US-3964482-\$ or US-5109850-\$ or US-6485461-\$ or US-5290240-\$ or US-4538616-\$ or US-5569186-\$ or US-6663615-\$ or US-5807375-\$ or US-4360019-\$ or US-4265241-\$ or US-4871351-\$ or US-4898582-\$ or US-7007710-\$ or US-6951632-\$ or US-5593130-\$ or US-5224843-\$ or US-5178190-\$). did. or (US-5085562-\$ or US-6201980-\$ or US-6068751-\$ or US-6523559-\$ or US-2910242-\$ or US-6268161-\$ or US-6475750-\$ or US-6695765-\$ or US-6193647-\$ or US-6514689-\$ or US-5152758-\$ or US-6425878-\$ or US-6740059-\$ or US-5730137-\$ or US-6635049-\$ or US-5337747-\$). did. or (US-2910242-\$). did. | | | | |
| S35 | 20 | S34 and hydrogel | US-PGPUB; USPAT; USOCR | OR | ON | 2006/12/08 14:43 |
| S36 | 1 | "20050065500" | US-PGPUB; USPAT; USOCR | OR | ON | 2006/12/08 15:30 |
| S37 | 0 | medical and (pump microfluidic) and hydrogel same pressure same reservoir | US-PGPUB; USPAT; USOCR | OR | ON | 2006/12/08 15:36 |

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|-----|-----|--|------------------------------|----|----|---------------------|
| S38 | 674 | medical and (pump microfluidic) and hydrogel same pressure | US-PGPUB; USPAT; USOCR | OR | ON | 2006/12/08 15:53 |
| S39 | 121 | medical and (pump microfluidic) and hydrogel same pressure same expand \$4 | US-PGPUB; USPAT; USOCR | OR | ON | 2006/12/08 15:36 |
| S40 | 44 | needle and medical and (pump microfluidic) and hydrogel same pressure same expand\$4 | US-PGPUB; USPAT; USOCR | OR | ON | 2006/12/08 15:37 |
| S41 | 32 | adhesive and needle and medical and (pump microfluidic) and hydrogel same pressure same expand \$4 | US-PGPUB; USPAT; USOCR | OR | ON | 2006/12/08 15:46 |
| S42 | 24 | adhesive and needle and medical and hydrogel with pump | US-PGPUB; USPAT; USOCR | OR | ON | 2006/12/08 15:51 |
| S43 | 146 | adhesive and needle and medical and hydrogel with pressure | US-PGPUB; USPAT; USOCR | OR | ON | 2006/12/08 15:51 |
| S44 | 0 | adhesive and needle and medical and hydrogel with pressure with source | US-PGPUB; USPAT; USOCR | OR | ON | 2006/12/08 15:51 |
| S45 | 1 | adhesive and needle and hydrogel with pressure with source | US-PGPUB; USPAT; USOCR | OR | ON | 2006/12/08 15:52 |
| S46 | 37 | adhesive and needle and hydrogel with pressure same expand\$4 | US-PGPUB; USPAT; USOCR | OR | ON | 2006/12/08 15:52 |
| S47 | 3 | adhesive and needle and hydrogel with pressure same response | US-PGPUB; USPAT; USOCR | OR | ON | 2006/12/08 15:52 |
| S48 | 35 | medical and (pump microfluidic) and hydrogel same pressure same response | US-PGPUB; USPAT; USOCR | OR | ON | 2006/12/08 16:07 |
| S49 | 3 | ("5368571" "6416495" "6542350").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/12/08 16:13 |
| S50 | 97 | expand\$4 same hydrogel same (urge expel pump infuse) same fluid | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/05 14:37 |
| S51 | 0 | ("2005/0038379").URPN. | USPAT | OR | ON | 2006/12/08 16:20 |
| S52 | 0 | "20030196900" | USPAT | OR | ON | 2006/12/08 16:20 |

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|-----|----|--|------------------------------|----|-----|---------------------|
| S53 | 0 | "20030196900" | USPAT | OR | ON | 2006/12/08 16:20 |
| S54 | 0 | "20030196900" | USPAT | OR | ON | 2006/12/08 16:20 |
| S55 | 1 | ("20030196900").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/12/08 16:22 |
| S56 | 42 | hydrogel with member with expand same (drug fluid pump infuse urge expel) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/12/08 16:23 |
| S57 | 3 | ("5779676" "6117296" "6287294").PN. OR ("6416495").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/12/08 16:46 |
| S58 | 1 | ("7047915").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/12/08 16:47 |
| S59 | 0 | (Soreq and et and al).in. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/12/08 16:47 |
| S60 | 25 | (Soreq).in. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/12/08 16:47 |
| S61 | 1 | ("5935593").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/06/15 14:16 |
| S62 | 11 | ("20030196900" "20040068224" "20040248326" "20060002804" "4552561" "5109850" "5224843" "5716343" "6416495" "6523559" "6689100" "5224843" "6523559" "6689100").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/06/15 14:16 |
| S63 | 27 | ("3604417" "3845770" "4034756" "4309996" "4327725" "4474575" "4503030" "4539004" "4595583" "4608048" "4678467" "4716031" "4743248" "4777049" "4781714" "4800056" "4814180" "5030216" "5082668" "5147654" "5221278" "5226902" "5312390" "5413572").PN. OR ("5935593").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/06/15 14:21 |

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|-----|----|---|------------------------------|----|----|---------------------|
| S64 | 11 | ("20030196900" "20040068224" "20040248326" "20060002804" "4552561" "5109850" "5224843" "5716343" "6416495" "6523559" "6689100").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/06/21 10:49 |
| S65 | 3 | (US-6485462-\$ or US-5030216-\$ or US-5935593-\$). did. | USPAT | OR | ON | 2007/10/05 14:07 |
| S66 | 6 | (US-20040248326-\$ or US-20060002804-\$ or US-20030196900-\$ or US-20060102483-\$).did. or (US-4552561-\$ or US-6416495-\$). did. | US-PGPUB; USPAT | OR | ON | 2007/10/05 14:07 |
| S67 | 89 | (US-20020040208-\$ or US-20040059316-\$ or US-20030167036-\$ or US-20060078462-\$ or US-20030019520-\$ or US-20030054652-\$ or US-20020063060-\$ or US-20020117517-\$ or US-20020193729-\$ or US-20030077836-\$ or US-20040068224-\$ or US-20050038379-\$ or US-20030097092-\$ or US-20050096587-\$ or US-20040254434-\$ or US-20050143715-\$ or US-20030130616-\$ or US-20030153900-\$ or US-20060057737-\$).did. or (US-6562000-\$ or US-6635049-\$ or US-6485462-\$ or US-5492533-\$ or US-4360019-\$ or US-5800420-\$ or US-5807375-\$ or US-6695765-\$ or US-4265241-\$ or US-6740059-\$ or US-5820622-\$ or US-6193647-\$ or US-6589229-\$ or US-6268161-\$ or US-6514689-\$ or US-5109850-\$ or US-5224843-\$ or US-5716343-\$ or US-6523559-\$ or US-6475750-\$ or US-6485461-\$ or US-6689100-\$ or US-5906592-\$ or US-7029455-\$ or US-5776103-\$ or US-5693018-\$). did. or (US-5656032-\$ or US-5290240-\$ or US-6186982-\$ | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/05 14:07 |

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|-----|-----|--|------------------------------|----|----|---------------------|
| | | or US-5336188-\$ or US-5169389-\$ or US-5921962-\$ or US-5995860-\$ or US-5569186-\$ or US-4871351-\$ or US-4822336-\$ or US-4734092-\$ or US-4718430-\$ or US-4557726-\$ or US-5279558-\$ or US-4673391-\$ or US-4486190-\$ or US-4395259-\$ or US-6425878-\$ or US-5730137-\$ or US-5337747-\$ or US-6663615-\$ or US-5152758-\$ or US-4822337-\$ or US-4538616-\$ or US-4445885-\$ or US-5354264-\$ or US-4403984-\$). did. or (US-5152753-\$ or US-4898582-\$ or US-7007710-\$ or US-6068751-\$ or US-6951632-\$ or US-5593130-\$ or US-5178190-\$ or US-5085562-\$ or US-6201980-\$ or US-2910242-\$ or US-5848991-\$ or US-6050988-\$ or US-3964482-\$ or US-6589202-\$ or US-5122127-\$ or US-5336213-\$). did. or (US-2910242-\$). did. | | | | |
| S68 | 1 | (S65 S66 S67) and reservoir same needle same valve and hydrogel same (pressure same source driv\$4 pump) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/05 14:09 |
| S69 | 0 | ("2005/0038379").URPN. | USPAT | OR | ON | 2007/10/05 14:09 |
| S70 | 1 | (S65 S66 S67) and reservoir and needle and valve and hydrogel same (pressure same source driv\$4 pump) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/05 14:09 |
| S71 | 2 | (S65 S66 S67) and reservoir and needle and valve and hydrogel and (pressure same source driv\$4 pump) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/05 14:16 |
| S72 | 2 | (S65 S66 S67) and reservoir and needle and valve and hydrogel | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/05 14:16 |
| S73 | 952 | medical and reservoir and needle and valve and hydrogel | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/05 14:23 |
| S74 | 259 | S73 and microfluid\$4 | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/05 14:18 |

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| S75 | 196 | S74 and pressure same hydrogel | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/05 14:18 |
| S76 | 0 | S74 and pressure same hydrogel same source | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/05 14:18 |
| S77 | 4 | medical and reservoir same needle same valve same hydrogel | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/05 14:29 |
| S78 | 6 | medical and reservoir same needle same valve same gel | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/05 14:33 |
| S79 | 13 | hydrogel with pressure with source | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/05 14:31 |
| S80 | 2 | medical and reservoir same needle same valve same colloid | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/05 14:34 |
| S81 | 0 | medical and reservoir same needle same valve same colloidal | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/05 14:34 |
| S82 | 7 | medical and reservoir same needle same valve same expandable | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/05 14:35 |
| S83 | 5 | osmotic with device same reservoir same needle same valve | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/05 14:38 |
| S84 | 37 | osmotic with device and reservoir same needle same valve | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/05 14:39 |
| S85 | 0 | (64/196495).APP. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/10/05 14:46 |
| S86 | 1 | ("6416495").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/10/05 14:46 |
| S87 | 37 | S67 and needle and adhesive | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/05 15:00 |
| S88 | 23 | S67 and needle and adhesive with skin | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/05 15:00 |

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| S89 | 89 | (US-20020040208-\$ or US-20040059316-\$ or US-20030167036-\$ or US-20060078462-\$ or US-20030019520-\$ or US-20030054652-\$ or US-20020063060-\$ or US-20020117517-\$ or US-20020193729-\$ or US-20030077836-\$ or US-20040068224-\$ or US-20050038379-\$ or US-20030097092-\$ or US-20050096587-\$ or US-20040254434-\$ or US-20050143715-\$ or US-20030130616-\$ or US-20030153900-\$ or US-20060057737-\$).did. or (US-6562000-\$ or US-6635049-\$ or US-6485462-\$ or US-5492533-\$ or US-4360019-\$ or US-5800420-\$ or US-5807375-\$ or US-6695765-\$ or US-4265241-\$ or US-6740059-\$ or US-5820622-\$ or US-6193647-\$ or US-6589229-\$ or US-6268161-\$ or US-6514689-\$ or US-5109850-\$ or US-5224843-\$ or US-5716343-\$ or US-6523559-\$ or US-6475750-\$ or US-6485461-\$ or US-6689100-\$ or US-5906592-\$ or US-7029455-\$ or US-5776103-\$ or US-5693018-\$).did. or (US-5656032-\$ or US-5290240-\$ or US-6186982-\$ or US-5336188-\$ or US-5169389-\$ or US-5921962-\$ or US-5995860-\$ or US-5569186-\$ or US-4871351-\$ or US-4822336-\$ or US-4734092-\$ or US-4718430-\$ or US-4557726-\$ or US-5279558-\$ or US-4673391-\$ or US-4486190-\$ or US-4395259-\$ or US-6425878-\$ or US-5730137-\$ or US-5337747-\$ or US-6663615-\$ or US-5152758-\$ or US-4822337-\$ or US-4538616-\$ or US-4445885-\$ or US-5354264-\$ or US-4403984-\$).did. or (US-5152753-\$ or US- | US-PGPUB; USPAT; USOCR | OR | ON | 2008/05/05 13:15 |
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| | | 4898582-\$ or US-7007710-\$ or US-6068751-\$ or US- 6951632-\$ or US-5593130-\$ or US-5178190-\$ or US- 5085562-\$ or US-6201980-\$ or US-2910242-\$ or US- 5848991-\$ or US-6050988-\$ or US-3964482-\$ or US- 6589202-\$ or US-5122127-\$ or US-5336213-\$).did. or (US- 2910242-\$).did. | | | | |
| S90 | 50 | S89 and valve | US-PGPUB; USPAT; USOCR | OR | ON | 2008/05/05 13:16 |
| S91 | 9 | S89 and valve with flexible | US-PGPUB; USPAT; USOCR | OR | ON | 2008/05/05 13:16 |
| S92 | 0 | ("2005/0038379").URPN. | USPAT | OR | ON | 2008/05/05 13:17 |
| S93 | 1 | ("20010031740" "5869077"). PN. | USPAT | OR | ON | 2008/05/05 13:38 |
| S97 | 1 | "20040248326" | US-PGPUB; USPAT; USOCR | OR | ON | 2008/05/05 13:43 |
| S98 | 237 | hydrogel with pump | US-PGPUB; USPAT; USOCR | OR | ON | 2008/05/05 13:44 |
| S99 | 116 | S98 and medical | US-PGPUB; USPAT; USOCR | OR | ON | 2008/05/05 13:44 |
| S100 | 161 | hydrogel with pump and drug | US-PGPUB; USPAT; USOCR | OR | ON | 2008/05/05 13:45 |
| S101 | 77 | S100 and needle | US-PGPUB; USPAT; USOCR | OR | ON | 2008/05/05 13:45 |
| S102 | 24 | S100 and needle and valve | US-PGPUB; USPAT; USOCR | OR | ON | 2008/05/05 13:47 |
| S103 | 24 | medical with check with valve with flexible | US-PGPUB; USPAT; USOCR | OR | ON | 2008/05/05 13:54 |
| S104 | 1 | ("4552561").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/05/05 13:57 |
| S105 | 28 | medical and check with valve with flexible with spring | US-PGPUB; USPAT; USOCR | OR | ON | 2008/05/05 14:01 |

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| S106 | 41 | medical same check with valve with spring | US-PGPUB; USPAT; USOCR | OR | ON | 2008/05/05 14:03 |
| S107 | 37 | S106 not S105 | US-PGPUB; USPAT; USOCR | OR | ON | 2008/05/05 14:03 |
| S108 | 53 | "5403893" | US-PGPUB; USPAT; USOCR | OR | ON | 2008/05/05 14:17 |
| S109 | 1 | ("5403893").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/05/05 14:17 |
| S110 | 3 | ("20040248326" "4552561" "4556086").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/11/20 23:06 |
| S111 | 2 | ((("6416495") or ("5693018"))).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/11/20 23:42 |
| S112 | 3 | ("20040248326" "4552561" "4556086").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/03/27 15:42 |
| S113 | 2 | ("5693018" "6416495").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/03/27 15:42 |
| S114 | 3 | (US-6485462-\$ or US-5030216-\$ or US-5935593-\$).did. | USPAT | OR | ON | 2009/03/27 15:44 |
| S115 | 6 | (US-20040248326-\$ or US-20060002804-\$ or US-20030196900-\$ or US-20060102483-\$).did. or (US-4552561-\$ or US-6416495-\$).did. | US-PGPUB; USPAT | OR | ON | 2009/03/27 15:44 |
| S116 | 89 | (US-20020040208-\$ or US-20040059316-\$ or US-20030167036-\$ or US-20060078462-\$ or US-20030019520-\$ or US-20030054652-\$ or US-20020063060-\$ or US-20020117517-\$ or US-20020193729-\$ or US-20030077836-\$ or US-20040068224-\$ or US-20050038379-\$ or US-20030097092-\$ or US-20050096587-\$ or US-20040254434-\$ or US-20050143715-\$ or US-20030130616-\$ or US-20030153900-\$ or US- | US-PGPUB; USPAT; USOCR | OR | ON | 2009/03/27 15:44 |

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| | | 20060057737-\$).did. or (US-6562000-\$ or US-6635049-\$ or US-6485462-\$ or US-5492533-\$ or US-4360019-\$ or US-5800420-\$ or US-5807375-\$ or US-6695765-\$ or US-4265241-\$ or US-6740059-\$ or US-5820622-\$ or US-6193647-\$ or US-6589229-\$ or US-6268161-\$ or US-6514689-\$ or US-5109850-\$ or US-5224843-\$ or US-5716343-\$ or US-6523559-\$ or US-6475750-\$ or US-6485461-\$ or US-6689100-\$ or US-5906592-\$ or US-7029455-\$ or US-5776103-\$ or US-5693018-\$).did. or (US-5656032-\$ or US-5290240-\$ or US-6186982-\$ or US-5336188-\$ or US-5169389-\$ or US-5921962-\$ or US-5995860-\$ or US-5569186-\$ or US-4871351-\$ or US-4822336-\$ or US-4734092-\$ or US-4718430-\$ or US-4557726-\$ or US-5279558-\$ or US-4673391-\$ or US-4486190-\$ or US-4395259-\$ or US-6425878-\$ or US-5730137-\$ or US-5337747-\$ or US-6663615-\$ or US-5152758-\$ or US-4822337-\$ or US-4538616-\$ or US-4445885-\$ or US-5354264-\$ or US-4403984-\$).did. or (US-5152753-\$ or US-4898582-\$ or US-7007710-\$ or US-6068751-\$ or US-6951632-\$ or US-5593130-\$ or US-5178190-\$ or US-5085562-\$ or US-6201980-\$ or US-2910242-\$ or US-5848991-\$ or US-6050988-\$ or US-3964482-\$ or US-6589202-\$ or US-5122127-\$ or US-5336213-\$).did. or (US-2910242-\$).did. | | | | |
| S117 | 7 | (US-20020194909-\$ or US-20050097951-\$ or US-20070116607-\$).did. or (US-6782746-\$ or US-6952962-\$ or US-6988402-\$ or US-7238196-\$).did. | US-PGPUB; USPAT | OR | ON | 2009/03/27 15:44 |

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| S118 | 0 | ("2005/0038379").URPN. | USPAT | OR | ON | 2009/03/27 16:00 |
| S119 | 27 | (S112 S113 S114 S115 S116 S117) and inject\$4 with (chamber reservoir) | USPAT | OR | ON | 2009/03/27 17:59 |
| S120 | 22 | (S112 S113 S114 S115 S116 S117) and hydrogel | USPAT | OR | ON | 2009/03/27 18:00 |
| S121 | 8 | S119 and S120 | USPAT | OR | ON | 2009/03/27 18:00 |
| S122 | 97 | (microfluid fluid medical) with delivery and inject\$4 with (chamber reservoir) and hydrogel same (pressure pump) | USPAT | OR | ON | 2009/03/27 18:14 |
| S123 | 17 | (microfluid fluid medical) with delivery and inject\$4 with (chamber reservoir) and hydrogel with (pressure pump) | USPAT | OR | ON | 2009/03/27 18:16 |
| S124 | 3 | hydrogel adj pump | USPAT | OR | ON | 2009/03/27 18:21 |
| S125 | 92 | hydrogel with pump | USPAT | OR | ON | 2009/03/27 18:24 |
| S126 | 83 | S125 not (S122 S123 S124) | USPAT | OR | ON | 2009/03/27 18:39 |
| S127 | 5 | ((("5716343") or ("5776103") or ("7083593") or ("4449983") or ("4552561"))).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/03/27 18:56 |
| S128 | 4 | ((("20040248326") or ("6416495") or ("5693018") or ("4552561"))).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/11/16 13:06 |
| S129 | 0 | ("2005/0038379").URPN. | USPAT | OR | ON | 2009/11/16 14:19 |
| S130 | 1 | ("4449983").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/11/17 10:50 |
| S131 | 3 | ((("5848991") or ("5466261") or ("52902404552561") or ("6416495"))).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/11/17 10:51 |
| S132 | 16 | ("4502160" "4854428" "4892546" "5071435" "5281226").PN. OR ("5466261").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/17 10:58 |

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| S133 | 108 | (US-20020194909-\$ or US-20050097951-\$ or US-20070116607-\$ or US-20020040208-\$ or US-20020063060-\$ or US-20020117517-\$ or US-20020193729-\$ or US-20030019520-\$ or US-20030054652-\$ or US-20030077836-\$ or US-20030097092-\$ or US-20030130616-\$ or US-20030153900-\$ or US-20030167036-\$ or US-20030196900-\$ or US-20040059316-\$ or US-20040068224-\$ or US-20040248326-\$ or US-20040254434-\$ or US-20050038379-\$ or US-20050096587-\$ or US-20050143715-\$ or US-20060002804-\$ or US-20060057737-\$ or US-20060078462-\$ or US-20060102483-\$).did. or (US-6782746-\$ or US-6952962-\$ or US-6988402-\$ or US-7238196-\$ or US-5980508-\$ or US-6320029-\$ or US-7083593-\$ or US-5466261-\$ or US-2910242-\$ or US-3964482-\$ or US-4265241-\$ or US-4360019-\$ or US-4395259-\$ or US-4403984-\$ or US-4445885-\$ or US-4486190-\$ or US-4538616-\$ or US-4552561-\$ or US-4557726-\$ or US-4673391-\$ or US-4718430-\$ or US-4734092-\$ or US-4822336-\$ or US-4822337-\$ or US-4871351-\$ or US-4898582-\$).did. or (US-5030216-\$ or US-5085562-\$ or US-5109850-\$ or US-5122127-\$ or US-5152753-\$ or US-5152758-\$ or US-5169389-\$ or US-5178190-\$ or US-5224843-\$ or US-5279558-\$ or US-5290240-\$ or US-5336188-\$ or US-5336213-\$ or US-5337747-\$ or US-5354264-\$ or US-5492533-\$ or US-5569186-\$ or US-5593130-\$ | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/17 10:59 |
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|------|----|--|------------------------------|----|-----|---------------------|
| | | or US-5656032-\$ or US-5693018-\$ or US-5716343-\$ or US-5730137-\$ or US-5776103-\$ or US-5800420-\$ or US-5807375-\$ or US-5820622-\$ or US-5848991-\$). did. or (US-5906592-\$ or US-5921962-\$ or US-5935593-\$ or US-5995860-\$ or US-6050988-\$ or US-6068751-\$ or US-6186982-\$ or US-6193647-\$ or US-6201980-\$ or US-6268161-\$ or US-6416495-\$ or US-6425878-\$ or US-6475750-\$ or US-6485461-\$ or US-6485462-\$ or US-6514689-\$ or US-6523559-\$ or US-6562000-\$ or US-6589202-\$ or US-6589229-\$ or US-6635049-\$ or US-6663615-\$ or US-6689100-\$ or US-6695765-\$ or US-6740059-\$ or US-6951632-\$ or US-7007710-\$). did. or (US-7029455-\$). did. or (US-2910242-\$). did. | | | | |
| S135 | 43 | S133 and (hydrogel cross-link \$4 adj polymer\$4) | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/17 11:00 |
| S136 | 2 | ((("5312390") or ("5413572")). PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/11/17 11:14 |
| S137 | 3 | ((("5935593") or ("5980508") or ("5466261")). PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/11/17 11:15 |
| S138 | 0 | (microfluid\$3 and fluid adj impermeable and needle and hydrogel). clm. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/17 12:48 |
| S139 | 5 | (microfluid\$3 and needle and hydrogel). clm. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/17 12:48 |
| S140 | 8 | (chamber and valve and needle and hydrogel). clm. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/17 12:50 |
| S141 | 4 | ((chamber reservoir) and pressure adj source and valve and hydrogel). clm. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/17 12:52 |
| S142 | 28 | ((chamber reservoir) and pump and valve and hydrogel). clm. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/17 12:54 |

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| S143 | 0 | ((chamber reservoir) and valve and hydrogel and expandable and select\$4 and deposit\$4).clm. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/11/17 13:01 |
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